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APPLICATION NO. FILING DA	ATE FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/683,249 12/05/20	01 Michael John Stephen Austin	S63.2-10014	8321	
490 7590 0	2/26/2003			
VIDAS, ARRETT & STE	EXAM	EXAMINER		
6109 BLUE CIRCLE DRIVE SUITE 2000	WEBB,	WEBB, SARAH K		
MINNETONKA, MN 55343-9185		ART UNIT	PAPER NUMBER	
		3731	THE ENTIRE SERVICE	
			DATE MAILED: 02/26/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		(1.
	Application No.	Applicant(s)
Office Action Summary	09/683,249	AUSTIN, MICHAEL JOHN STEPHEN
omec Action Cammary	Examiner	Art Unit
	Sarah K Webb	3731
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the (correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on 27.	<u>January 2003</u> .	
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.	
Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims		
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application	١.	
4a) Of the above claim(s) <u>4,10-19,22-28,30 an</u>	d 33 is/are withdrawn from consid	deration.
5) Cłaim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-3,5-9,20,21,29,31 and 32</u> is/are rej	ected.	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examine	er.	
10) The drawing(s) filed on is/are: a) □ acce		
Applicant may not request that any objection to th		
11) The proposed drawing correction filed on		oved by the Examiner.
If approved, corrected drawings are required in re		
12) The oath or declaration is objected to by the Ex	kaminer.	
Priority under 35 U.S.C. §§ 119 and 120	,	
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority document 	ts have been received.	
2. Certified copies of the priority document	ts have been received in Applicat	ion No
3. Copies of the certified copies of the prion application from the International But See the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)
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DETAILED ACTION

Election/Restrictions

1. Claims 4,10-19,22-28,30, and 33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected invention and species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 6, and the examiner has responded by including claims 1-3 as generic.

Specification

2. The disclosure is objected to because of the following informalities: the detailed description makes reference to the claims on pages 18 and 19. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3,5-9,20,21 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,264,687 to Tomonto.

Regarding claims 1-3 and 20, Tomonto discloses a stent that has three balloon expandable, but not self-expanding segments (20,30,40), as shown in Figure 2. Two self-expanding segments (80,90) are located between the balloon expandable segments. Tomonto describes the balloon expandable sections (20,30,40) as rigid and plastically deformable (column

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4, line 43). The segments (80,90) are formed only of a superelastic material, such as Nitinol, so they are inherently self-expanding (column 5, line 20).

Regarding claim 5: The language of claim 5 is very broad, so the best reasonable interpretation was given the claim. Applicant only explains that an *island* may be only one self-expanding cell (page 8, line 8), or simply a plurality of connected self-expanding cells. Applicant further explains that the *islands* can have any shape (page 9, line 5). Given this, the stent of Tomonto meets the limitations of claim 5. The balloon expandable segments (20,30,40) clearly have *cells*, as outlined on the attachment. The self-expanding segments (80,90) have *cells*, which are outlined more clearly in the attachment. These *cells* are formed by the self-expanding material that lies partly underneath the balloon expandable material. Since the main portion of the self-expanding cells is made solely of the self-expanding material, the self-expanding cells are considered to be in between the balloon expandable cells. The self-expanding cells are connected to make up intermediate "islands" (80,90), which are surrounded by the balloon expandable segments (20,30,40).

Regarding claims 6-9 and 21: Since there are two "islands" of self-expanding cells, the stent has a *plurality* of islands. The stent has three, or a plurality, of balloon expandable sections. The islands are regularly distributed over the stent, and there are more balloon expandable cells than self-expanding cells.

4. Claim 31 is rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,409,750 to Hyodoh et al.

Hyodoh discloses a stent (10) that can be made of a shape memory material, such as FeMnSiCrNi (column 2, line 12; column 7, lines 31-35).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tomonto in view of Hyodoh.

Tomonto includes all the limitations of claim 32, except for the shape memory metal being FeMnSiCrNi stainless steel. Hyodoh teaches that FeMnSiCrNi is a shape memory metal used for self-expanding stents, and is an equivalent substitute for nitinol (column 2, lines 8-12). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the self-expanding portion of Tomonto from FeMnSiCrNi, as taught by Hyodoh, as this just an alternate shape memory metal to nitinol.

6. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tomonto in view of US Patent No. 6,096,070 to Ragheb et al.

Tomonto includes all the limitations of claim 29, except for a biological coating on the stent. Ragheb teaches that is desirable to apply biological coating to stents in order to treat conditions and diseases, such as thrombosis (column 2, lines 41-67). Ragheb lists many biological materials that are currently incorporated in stent coatings in column 3. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a biological coating on the stent of Tomonto, as taught by Ragheb, in order to prevent and treat conditions and diseases of blood vessels.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. US Patent No. 6, 488, 702 to Besselink and US 5,601,593 to Freitag disclose stents

that have cellular structure and both balloon expandable and self-expanding members.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sarah K Webb whose telephone number is (703) 305-7554. The

examiner can normally be reached on 8am-4:30pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Milano can be reached on 703-308-2496. The fax phone numbers for the

organization where this application or proceeding is assigned are (703)305-3590 for regular

communications and (703) 305-3590 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0858.

Sarah K Webb

Examiner

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February 21, 2003

Michael Milano

Supervisory Patent Examiner

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